

**SURFACE-BOUND ANTIGEN BINDING PORTIONS OF ANTIBODIES THAT  
BIND TO CTLA-4 AND CD28 AND USES THEREFOR**

**Abstract of the Disclosure**

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10 The instant invention provides compositions for downmodulation or upmodulation of  
the immune response. For example, constructs comprising an exposed surface having  
attached to it i) an antigen-binding portion of an antibody that binds to a CTLA-4 or CD28  
molecule that is expressed on a T cell of the subject, and ii) an MHC molecule selected from  
the group consisting of: a class II molecule that is syngeneic to the subject, a class I molecule  
that is syngeneic to the subject, and a class I molecule that is allogeneic to the subject are  
provided. Methods of using the molecules of the invention in downmodulation or  
upmodulation of the immune response are also provided. Also provided are methods of  
downmodulating a immune response in a subject comprising causing a cell of the subject to  
15 express an antigen-binding portion of an antibody that binds a CTLA-4 or CD28 molecule  
that is expressed on a T cell of the subject, such that the immune response in the subject is  
downmodulated. Methods of preparing an allogeneic cell for transplantation and methods of  
transplanting engineered allogeneic cells are also provided.